## It is Claimed:

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A separation column comprising:

a separation channel extending between an inlet and an outlet and having a channel wall; and,

- a separation medium in the channel, said channel having at least one photopolymer frit adapted to retain the separation medium in the channel, the at least one frit having a controlled porosity.
  - 2. The separation column as in claim 1 wherein the photopolymer frit is bound to an inner surface of the channel wall.
  - 3. The column as in claim 1 wherein the photopolymer frit is adjacent to the inlet, the outlet, or both.
  - 4. The column as in claim 1 wherein the controlled porosity of the photopolymer frit is a mean pore size of between about 1.0  $\mu$ m and 5.0  $\mu$ m.
  - 5. The column as in claim 1 wherein the separation channel is a fused-silica capillary having an internal dimension in the range of between about 5 and 300  $\mu$ m, and the photopolymer frit is of a structure sufficient to withstand high pressure during packing of the separation medium in the channel.
  - 6. The separation column as in claim 5 wherein the photopolymer frit is derived from a methacrylate monomer or a methacrylate-substituted silicate.
  - 7. The separation column as in claim 6 wherein the photopolymer frit is derived from a methacrylate monomer polymerized via photoinitiation.

- 8. The column as in claim 6 wherein the photopolymer frit is derived from a photocurable methacrylate-substituted silicate.
- 9. The column of claim 1, said column having a first portion that is filled with said separation medium and a second portion adjacent to said first portion that transmits radiation.
- 10. The column of claim 9 wherein said second portion does not contain said separation medium.

M. A separation column comprising:

a separation channel extending between an inlet and an outlet and having a channel wall; and,

a separation medium in the channel, said medium including a porous

matrix and chromatographic particles dispersed in the matrix, said separation
medium being formed of a photopolymer.

- 12. The separation column as in claim 1 wherein the channel wall has an exterior surface, and the exterior surface is substantially covered by a protective coating.
- 13. The column as in claim 12 where the protective coating includes polyimide.